Listing of Claims:

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1. (original) A method for pulverizing material and extracting moisture from material, comprising:

providing an airflow generator in communication with a venturi;

the airflow generator generating an airflow through the venturi and towards the airflow generator;

introducing the material into the airflow; and

passing the material through the venturi to extract moisture and pulverize the material.

- 2. (original) The method of claim 1, further comprising passing the pulverized material through an input aperture of the airflow generator.
 - 3. (original) The method of claim 1:

disposing the airflow generator within a housing; and

passing the pulverized material through an exhaust pipe coupled to an outlet of the housing.

- 4. (original) The method of claim 3, further comprising inclining the exhaust pipe at an angle ranging from about 25 degrees to about 90 degrees relative to the longitudinal axis of the venturi.
- 5. (original) The method of claim 3, further comprising providing a flow control valve in the exhaust pipe.
 - 6. (original) The method of claim 3, further comprising:
 passing the pulverized material from the exhaust pipe to a cyclone; and

the cyclone separating the pulverized material from air.

- 7. (original) The method of claim 6, further comprising passing the air from the first cyclone to a second cyclone to remove residual particles from the air.
- 8. (original) The method of claim 6, further comprising passing the air into a condenser to condense vaporized moisture.
- 9. (original) The method of claim 1, further comprising blending the material prior to introducing the material into the airflow.
- 10. (original) The method of claim 9, further comprising blending the material with a drying enhancing agent.
- 11. (original) The method of claim 1, further comprising introducing the material into a hopper prior to introducing the material into the airflow.
- 12. (original) The method of claim 1, further comprising heating air upstream of the venturi.
- 13. (original) The method of claim 1, further comprising monitoring a flow rate of the material upstream of the venturi.
 - 14. (original) The method of claim 1, further comprising:

disposing the airflow generator within a housing;

providing a valve on the diverging portion of the venturi; and

the valve adjusting the air volume and air velocity within the housing and the airflow generator.

15. (original) The method of claim 1, wherein introducing the material into the airflow includes,

providing an inlet tube coupled to the venturi; and

introducing the material into the inlet tube.

- 16. (original) The method of claim 1, wherein the venturi includes a throat and further comprising introducing a throat resizer into the throat to increase airflow velocity.
 - 17. (original) The method of claim 1, further comprising:
 disposing the airflow generator within a housing having an outlet;
 introducing a restrictor into the outlet to restrict airflow.
 - 18. (original) The method of claim 1, further comprising: introducing the pulverized material into the airflow; and passing the pulverized material through the venturi to further extract moisture.
 - 19. (original) The method of claim 1, further comprising:
 measuring a moisture content of the pulverized material;
 upon determining that the moisture content exceeds a threshold value,

introducing the pulverized material into an airflow; and

passing the pulverized material through the venturi to further extract moisture.

20. (original) The method of claim 1, further comprising: measuring a particle size of the pulverized material;

upon determining that the particle size exceeds a threshold value, introducing the pulverized material into an airflow and

passing the pulverized material through the venturi to further pulverize the material.

21. (original) The method of claim 1, further comprising varying the velocity of the airflow to provide a desired particle size of the pulverized material.

22. (original) A method for homogenizing materials, comprising:

providing an airflow generator in communication with a venturi;

the airflow generator generating an airflow through the venturi and towards the airflow generator;

introducing first and second materials into the airflow; and
passing the first and second materials through the venturi to pulverize and
homogenize the materials.

- 23. (original) The method of claim 22, further comprising blending the first and second materials prior to introducing the first and second materials into the airflow.
- 24. (original) The method of claim 23, further comprising blending the first and second materials with a drying empancing agent.
- 25. (original) The method of claim 22, further comprising introducing the first and second materials into a hopper prior to introducing the first and second materials into the airflow.
- 26. (original) The method of claim 22, further comprising directing heat to the airflow.
- 27. (original) The method of claim 25, further comprising monitoring a flow rate of the first and second materials together into the airflow.
- 28. (original) The method of claim 22, further comprising pulverizing the first material by passing the first material through a venturi prior to introducing first and second materials into the airflow.

- 29. (original) The method of caim 22 further comprising passing the homogenized materials through an input aperture of the airflow generator.
- 30. (original) The method of claim 29, further comprising:
 disposing the airflow generator within a housing having an outlet; and
 passing the homogenized materials through an exhaust pipe coupled to the
 outlet of the housing.
- 31. (original) The method of claim 30, further comprising inclining the exhaust pipe at an angle ranging from about 25 degrees to about 90 degrees relative to the longitudinal axis of the venturi.
- 32. (original) The method of daim 30, further comprising providing a flow control valve in the exhaust pipe.
 - 33. (original) The method of caim 30, further comprising:
 passing the homogenized materials from the exhaust pipe to a cyclone; and
 the cyclone separating the homogenized materials from air.
- 34. (original) The method of claim 33, further comprising passing the air from the first cyclone to a second cyclone to remove residual particles from the air.
- 35. (original) The method of claim 22, further comprising:
 disposing the airflow generator within a housing;
 providing a valve on a diverging portion of the venturi; and
 the valve adjusting the air volume and air velocity within the housing and the airflow generator.
- 36. (original) The method of claim 22, wherein introducing the first and second materials into the airflow includes.

providing an inlet tube coupled to the venturi such that the airflow passes through the inlet tube, and

introducing the first and second materials into the inlet tube.

- 37. (original) The method of claim 22, wherein the venturi includes a throat and further comprising introducing a throat resizer into the throat to increase air velocity.
 - 38. (original) The method of claim 22, further comprising: disposing the airflow generator within a housing having an outlet; and introducing a restrictor into the outlet to restrict airflow.
- 39. (original) The method of claim 22, further comprising: introducing the homogenized materials into the airflow; and passing the homogenized materials through the venturi to further homogenize the first and second materials.
- 40. (original) The method of claim 22, further comprising: measuring a moisture content of the homogenized materials; upon determining that the moisture content exceeds a threshold value, introducing the homogenized materials into an airflow; and passing the homogenized materials through a venturi to further extract moisture within the homogenized materials:
- 41. (original) The method of claim 22, further comprising: measuring a particle size of the homogenized materials; upon determining that the particle size exceeds a threshold value, introducing the homogenized materials into an airflow and

passing the homogenized materials through a venturi to further pulverize the homogenized materials.

- 42. (original) The method of claim 22, further comprising varying the velocity of the airflow to provide a desired particle size of the pulverized materials.
- 43. (original) An apparatus for pulverizing material and extracting moisture from material, comprising:

an inlet tube;

a venturi coupled to the inlet tube; and

an airflow generator to generate an airflow, the airflow generator in communication with the venturi to direct an airflow through the inlet tube, through the venturi, and toward the airflow generator, wherein material introduced into the airflow passes through the venturi and is subject to pulverization and moisture extraction.

- 44. (original) The apparatus of claim 43, further comprising a hopper in communication with the inlet tube to receive material and convey material to the inlet tube.
- 45. (original) The apparatus of claim 44, further comprising a heat generator in communication with the inlet tube.
- 46. (original) The apparatus of claim 43, further comprising a sensor to monitor the material flow volume to the injet tube.
 - 47. (original) The apparatus of claim 43, further comprising:

a housing that at least partially encompasses the airflow generator, the housing having an outlet; and

an exhaust pipe, coupled to the outlet.

- 48. (original) The apparatus of claim 47, wherein the exhaust pipe is inclined at an angle ranging from about 25 degrees to about 90 degrees relative to the longitudinal axis of the venturi.
- 49. (original) The apparatus of claim 47, further comprising a flow control valve in the exhaust pipe.
- 50. (original) The apparatus of claim 47, further comprising a restrictor disposed within the outlet to limit airflow.
- 51. (original) The apparatus of claim 47, further comprising a cyclone coupled to the exhaust pipe to separate air from pulverized material.
- 52. (original) The apparatus of claim 51, further comprising a second cyclone in communication with the first cyclone to receive air and separate residual particles.
- 53. (original) The apparatus of claim 51, further comprising a condenser in communication with the cyclone to receive air and condense moisture.
- 54. (original) The apparatus of claim 43, further comprising a blender to blend material to be introduced into the injet tube.
- 55. (original) The apparatus of claim 54, further comprising a conveyance device to convey blended material from the blender to the inlet tube.
 - 56. (original) The apparatus of claim 43, further comprising:
 - a housing at least partially encompassing the airflow generator; and
- a valve disposed on the diverging portion of the venturi to adjust the air volume and air velocity within the housing and the airflow generator.
- 57. (original) The apparatus of claim 43, wherein the venturi includes, a converging portion, a throat coupled to the converging portion, and a diverging

portion coupled to the throat, and wherein the apparatus further comprises a throat resizer disposed within the throat to increase air velocity.

- 58. (original) The apparatus of claim 43, wherein the inlet tube has a first end configured as a flange.
- 59. (original) The apparatus of claim 43, further comprising a mobile vehicle supporting the inlet tube, venturi, and airflow generator.

60-80 (canceled)

81. (original) An apparatus for puberizing material and extracting moisture from material, comprising:

an inlet tube;

a venturi coupled to the inlet tube, wherein the venturi includes,

a converging portion,

- a throat coupled to the converging portion, and
- a diverging portion coupled by the throat;

an airflow generator to generate a pirflow and including an input aperture;

a housing at least partially encompassing the airflew generator and including an outlet in communication with the input aperture,

the airflow generator in communication with the venturi to direct the airflow through the venturi, and toward the input aberture, wherein material introduced into the airflow passes through the venturi and is subject to pulverization and moisture extraction:

an exhaust pipe coupled to the outer and

a cyclone coupled to the exhaust pige to separate air from pulverized material.

- 82. (original) The apparatus of claim 81, further comprising a blender to blend material to be introduced into the injet tube.
- 83. (currently amended) The apparatus of claim 81, further comprising a conveyance device to convey bended maigraal from [[the]] a blender to the inlet tube.
- 84. (original) The apparatus of claim 81, further comprising a throat resizer disposed within the throat to increase air reports.
- 85. (original) The apparatus of claim 81, further comprising a hopper in communication with the inlet tube to receive material and convey material to the inlet tube.
- 86. (original) The apparatus of claim 85, further comprising a heat generator in communication with the hopper.
- 87 (original) The apparatus of class 81, further comprising a sensor to monitor the material flow volume to the injectube.
- 88. (original) The apparatus of class 81, wherein the exhaust pipe is inclined at an angle from about 25 degrees to about 90 degrees relative to the longitudinal axis of the venturi.
- 89. (original) The apparatus of claim 81, further comprising a flow control valve in the exhaust pipe.
- 90. (original) The apparatus of class 81, further comprising a restrictor disposed within the outlet to limit airrow.
- 91. (original) The apparatus of claim 81, further comprising a second cyclone in communication with the first cyclone to receive air and separate residual particles.

- 92. (original) The apparatus of claim 81, further comprising a condenser in communication with the cyclone to receive air and condense extracted moisture.
- 93. (original) The apparatus of claim 81, further comprising a valve disposed on the diverging portion of the venturi to adjust the air volume and air velocity within the housing and the airflow generator.
- 94. (original) The apparatus of claim 81, wherein the inlet tube has a first end in communication with free space, the first end configured as a flange.
- 95. (original) The apparatus of claim 81, further comprising a mobile vehicle supporting the inlet tube, venturi, arrilow cenerator, housing, exhaust pipe, and cyclone.
- 96. (original) The apparatus of claim 81 wherein the housing further includes a diverter plate coupled to the interior of the housing proximate to the outlet and having a cutting edge proximate to the allipse generator.
- 97. (original) The apparatus of claim 81 wherein an interior diameter of the inlet tube has approximately a two icone latio with the interior diameter of the throat.
- 98. (original) An apparatus for put erizing material and extracting moisture from material, comprising:
 - a first inlet tube;
 - a first venturi coupled to the first in at tube;
- a first airflow generator to generate an airflow and including a first input aperture;
- a first housing having a first outlet is communication with the first input aperture.

the first airflow generator in somm inication with the first venturi to direct an airflow through the first venturi, and it was a the first input aperture, wherein material introduced into an airflow passes through the first venturi and is subject to pulverization and moisture extraction.

- a first exhaust pipe coupled the st outlet;
- a first cyclone coupled to the first a naust pipe to separate air from pulverized material;
 - a second inlet tube to receive pulve zed material from the first cyclone;
 - a second venturi coupled to be second inlet tube;
- a second airflow generator to generate an airflow and including a second input aperture,
- a second housing including a second outlet in communication with the second input aperture,

the second airflow generator in communication with the second venturi to direct an airflow through the second venture, and toward the second input aperture, wherein pulverized material introduced in an airflow passes through the second venturi and is subject to further pulverization and moisture extraction;

- a second exhaust pipe coup ed to the second outlet; and
- a second cyclone coupled to the standard ond exhaust pipe to separate air from pulverized material.
- 99. (original) The apparatus of claim 98, further comprising a blender to blend material to be introduced in o the first inlegube.

- 100. (original) The apparatus of comm 99, further comprising a conveyance device to convey blended material from the blender to the first inlet tube.
 - 101. (original) The apparate of cam 98, further comprising:
- a first hopper in communication with the first inlet tube to receive material and convey material to the first inlet tube and
- a second hopper in communication with the second inlet tube to receive pulverized material and convey pull grize material to the second inlet tube.
- 102. (original) The apparates of claim 101, further comprising a heat generator in communication with the first and second hoppers.
- 103. (original) The apparates of the im 98, further comprising a sensor to monitor the material flow rate to the irrst set tube.
- 104. (original) The apparatus of the im 98, wherein the first and second exhaust pipes are inclined at an article from about 25 degrees to about 90 degrees relative to the longitudinal axis of the corresponding first and second venturis.
 - 105. (original) The apparation of the im 98, further comprising:
 - a first flow control valve dispessed to the first exhaust pipe; and
 - a second flow control valve spoot in the second exhaust pipe.
 - 106. (original) The apparates of saim 98, further comprising:
- a third cyclone in communication with the first cyclone to receive air and separate residual particles, and
- a fourth cyclone in communation with the second cyclone to receive air and separate residual particles.
 - 107. (original) The apparates of saim 98, further comprising:

a first condenser in communication with the first cyclone to receive air and condense vaporized moisture; and

a second condenser in communication with the second cyclone to receive air and condense vaporized moisture.

108. (original) The apparates of community of community in the support of community in the support of the suppo

a first valve disposed on the sist verturi to adjust air volume and air velocity within the first housing and the first airflow generator; and

a second valve disposed on the second venturi to adjust air volume and air velocity within the second housing and the second airflow generator.

109. (original) An apparatus for poverizing material and extracting moisture from material, comprising:

a first inlet tube;

a first venturi coupled to the st in at tube;

a first airflow generator to generate an airflow and including a first input aperture;

a first housing at least partial encompassing the first airflow generator and having a first outlet in communication with the first input aperture,

the first airflow generator in somme lication with the first venturi to direct an airflow through the first venturi, and owar the first input aperture, wherein material introduced into an airflow passes the pugh me first venturi and is subject to pulverization and moisture extraction.

a first exhaust pipe coupled the st outlet;

a first cyclone coupled to the first emaist pipe to separate air from pulverized material;

- a second inlet tube to receive pulve ized material from the first cyclone;
- a second venturi coupled to the second inlet tube;
- a second airflow generator to generate an airflow and including a second input aperture,
- a second housing at least partially secompassing the second airflow generator and including a second outlet in communication with the second input aperture.

the second airflow generator confinunication with the second venturi to direct an airflow through the second centur, and toward the second input aperture, wherein pulverized materia introduced in an airflow passes through the second venturi and is subject to further pulverization and moisture extraction;

- a second exhaust piec coupled to second outlet;
- a second cyclone coupled to the second exhaust pipe to separate air from pulverized material;
 - a third inlet tube to receive payerized material from the second cyclone;
 - a third venturi coupled to the tird et tube;
- a third airflow generator to generate an airflow and including a third input aperture;
- a third housing at least partially enterpressing the third airflow generator and including a third outlet in communication with the third input aperture,

the third airflow generator in the minimum plication with the third venturi to direct an airflow through the third venturi, and toward the third input aperture, wherein

pulverized material introduced into a fairf wipasses through the third venturi and is subject to further pulverization and a pisture extraction;

- a third exhaust pipe coupled the fird outlet; and
- a third cyclone coupled to the third schaust pipe to separate air from pulverized material.
- 110. (original) The apparatus of community o
- 111. (original) The apparatus of community of community and the device to convey blended material from the blender to the first inlet tube.
 - 112. (original) The apparate of compliance in 109, further comprising:
- a first hopper in communication will the first inlet tube to receive material and convey material to the first inlet tube
- a second hopper in communication with the second inlet tube to receive pulverized material and convey pulverized material to the second inlet tube; and
- a third hopper in communication will the third inlet tube to receive pulverized material and convey pulverized material to the third inlet tube.
 - 113. (original) The apparates of c க்றி 109, further comprising:
- a third cyclone in communication with the first cyclone to receive air and separate residual particles;
- a fourth cyclone in communication with the second cyclone to receive air and separate residual particles; and
- a fifth cyclone in communication with the third cyclone to receive air and separate residual particles.

114. (original) The apparatus of cert 109, further comprising:

a first condenser in communication with the first cyclone to receive air and condense vaporized moisture;

a second condenser in communication with the second cyclone to receive air and condense vaporized moisture; and

a third condenser in communication with the third cyclone to receive air and condense vaporized moisture.

115. (original) The apparatus of cath 109, further comprising:

a first valve disposed on the first vergiri to adjust air volume and air velocity within the first housing and the first antion senerator;

a second valve disposed on the second venturi to adjust air volume and air velocity within the second housing and the second airflow generator; and

a third valve disposed on the third airlie generator.

116. (original) An apparatus for preferzing material and extracting moisture from material, comprising:

an inlet tube;

a venturi coupled to the inlet tube;

an airflow generator to generate an airflow and including an input aperture;

a housing at least partially encome ssing the airflow generator and including an outlet in communication with the input perture;

the airflow generator in communication with the venturi to direct the airflow through the venturi, and toward the input serture, wherein material introduced into

the airflow passes through the venturi and subject to pulverization and moisture extraction:

an exhaust pipe coupled to the out

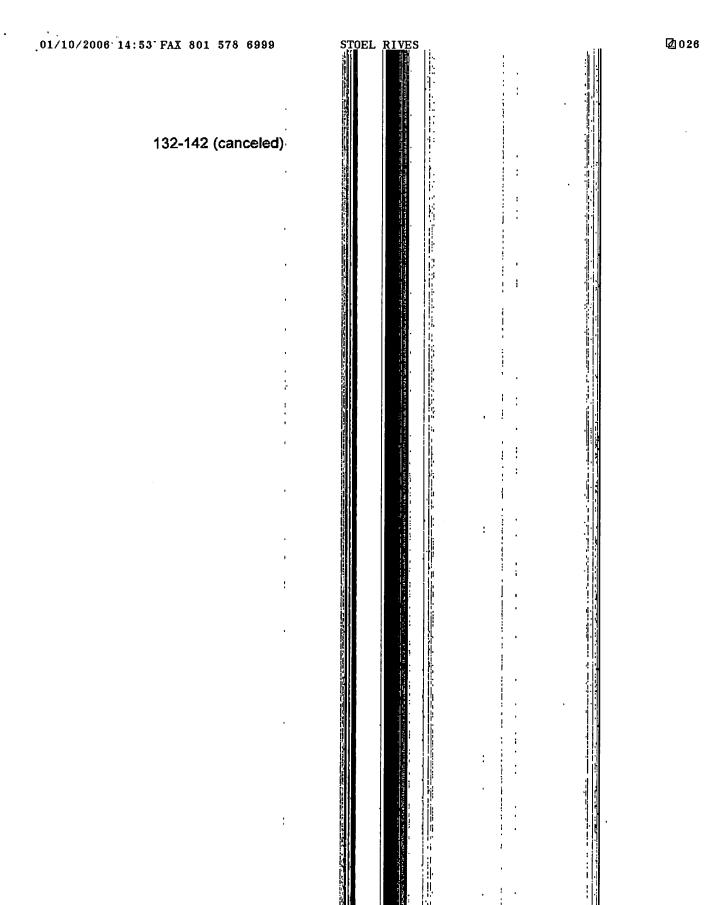
a cyclone coupled to the exhaust part to separate air from pulverzed material;

a diverter valve coupled to the cycle and including a first diverter outlet and a second diverter outlet, the diverter valve alternatively directing pulvenzed material to the first and second diverter outlets; and

a recycling tube coupled to the second diverter outlet and in communication with the inlet tube to allow introduction of a pulverized material into the inlet tube and venturi.

- 117. (original) The apparatus of care 116, further comprising a blender to blend material to be introduced into the line tube.
- 118. (original) The apparatus of call 117, further comprising a conveyance device to convey blended material from the blender to the inlet tube.
- disposed within the throat to increase air specity.
- 120. (original) The apparatus of communication with the inlet tube to ecces material and convey material to the inlet tube.
- 121. (original) The apparatus of carm 116, further comprising a heat generator in communication with the nopr
- 122. (original) The apparatus of carm 116, further comprising a sensor to monitor the material flow volume to the innertube.

- 123. (original) The apparatus of community in 116, wherein the exhaust pipe is inclined at an angle from about 25 degree to about 90 degrees relative to the longitudinal axis of the venturi.
- 124. (original) The apparatus of can 116, further comprising allow control valve in the exhaust pipe.
- 125. (original) The apparatus of can 116, further comprising a restrictor disposed within the outlet to limit air ew
- 126. (original) The apparatus of cauth 116, further comprising a second cyclone in communication with the first cyclone to receive air and separate residual particles.
- 127. (original) The apparatus of the 116, further comprising a condenser in communication with the cyclone to receive air and condense extracted in oisture.
- 128. (original) The apparatus of the in 116, further comprising a valve disposed on the diverging portion of the valur to adjust the air volume and air velocity within the housing and the artiove representation.
- 129 (original) The apparatus of counties in 116, further comprising a collector coupled to the first diverter outlet.
- 130. (original) The apparatus of the initial of the
- 131 (original) The apparatus of the first of the housing further comprises a diverter plate coupled to the terior of the housing proximate to the outlet and including a cutting edge proximate to the airflow generator.



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